

**Defense Information Infrastructure (DII)  
Common Operating Environment (COE)**

**Version Description Document for the  
Remote Segment Installer Segment**

**FINAL**

**Version 2.0.0.0**

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**Prepared for:**

**Defense Information Systems Agency**



## Table of Contents

1.	System Overview .....	1
2.	Referenced Documents.....	1
3.	Version Description.....	2
3.1	Inventory of Materials Released.....	2
3.2	Software Changes.....	2
4.	Installation Instructions .....	2
4.1	Installing the Remote Segment Installer Segment .....	2
4.2	Installing a Segment .....	3
5.	Repository Configuration .....	3
6.	Known Problems and Errors.....	4
7.	Release Notes.....	5

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**NOTE:** Courier font is used to indicate entries to be typed at the keyboard, UNIX commands, file and directory names, and screen text. For example:

The file is located in the `DII_DEV` directory.

## 1. System Overview

COERmtInstall is the Defense Information Infrastructure (DII) Common Operating Environment (COE) remote installation tool. It is normally selected from the System Administration menu bar as the `Remote Segment Installer` option, but it may also be invoked from the command line. The COERmtInstall tool can be used in either a *push* or a *pull* mode.

**NOTE:** A Netscape segment must be installed in order to install the COERmtInstall tool. The Netscape segment is required by the Remote Install segment for graphical pull operations.

The remote installation *push* operation involves the transfer of one or more segments from the source site [e.g., Operational Support Facility (OSF)] across the network to the target site. The selected segment(s) either can be loaded on the network installation server or installed directly on the target machine. In the push mode, the operator is at the source site.

The remote installation *pull* operation involves an operator at the target site requesting the transfer of one or more segment install file(s) from the source site across the network to the target site. Pull mode operation has a World-wide Web (WWW) interface intended for ease of use. The selected segment(s) either can be loaded on the network installation server or installed directly on the source machine.

The *DII COE Integration and Runtime Specification* and the *DII COE Remote Segment Installer Segment User's Guide* provide a complete description of the COERmtInstall tool and its functionality.

## 2. Referenced Documents

The following documents are referenced in this Version Description Document:

- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) Integration and Runtime Specification* Version 2.0 DII COE I&RTS Rev 2.0

- C *Defense Information Infrastructure (DII) Common Operating Environment (COE) System Administrator's Guide (HP and Solaris) FINAL* Version 3.0.0.3, DII.3003.Final.UNIX.AG-1, Inter-National Research Institute, October 29, 1996.

### **3. Version Description**

#### **3.1 Inventory of Materials Released**

- C Magnetic media: Two 8mm tapes consisting of a relative tar of the Remote Segment Installer segment, Version 2.0.0.0 (Solaris 2.4).
- C Magnetic media: Two 8mm tapes consisting of a relative tar of the Remote Segment Installer segment, Version 2.0.0.0 (Solaris 2.5.1).
- C Magnetic media: Two 4mm tapes consisting of a relative tar of the Remote Segment Installer segment, Version 2.0.0.0 (HP-UX 9.0.7).
- C Soft-copy Documentation: One 3.5" floppy diskette (WordPerfect 6.0 for Windows format) containing the *Defense Information Infrastructure (DII) Common Operating Environment (COE) Version Description Document for the Remote Segment Installer Segment FINAL* Version 2.0.0.0, Document Control No. DII.2000.Final.RmtInst.VDD-1, October 29, 1996.
- C Hard-copy Documentation: Two hard copies of the aforementioned Version Description Document.

#### **3.2 Software Changes**

This is the first delivery of the Remote Segment Installer segment; as such, this delivery contains no software changes.

### **4. Installation Instructions**

#### **4.1 Installing the Remote Segment Installer Segment**

The system administrator must ensure that the system is loaded correctly with the DII COE

using the "write to disk" option. This creates a segment installation tar file. Refer to the *DII COE Programming Guide (HP and Solaris)* for information about running the MakeInstall tool.

**STEP 2: Place the file in the appropriate directory.** Copy the segment installation file created by MakeInstall to the RemoteInstall directory on the repository machine.

**STEP 3: Update the list of the segments in the repository.** Run the IndexSegs command, as described in Section 5, *Repository Configuration*. IndexSegs should be located in the repository directory.

## 5. Repository Configuration

In DII COE 3.0, the Defense Information Systems Agency (DISA) repository will consist of a directory on a large disk partition. The files stored in this directory must be accessible by anonymous file transfer protocol (FTP) and over the WWW (on the SIPRNET).

<b>NOTE:</b> The repository is configured at the repository (source) site.
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Follow the steps below to set up the repository:

**STEP 1: Set up an anonymous FTP server if you want to support command line push and pull mode operations and set up a WWW server if you want to support graphical pull mode operations.**

Consult the ftpd (FTP Daemon) manual pages for instructions on setting up an anonymous FTP server.

Consult the vendor documentation for the selected WWW server (e.g., NCSA HTTPD) for instructions on setting up the server. Make special note of the top-level directory for the server, as well as the document root directory.

**STEP 2: Tar the repository files from the submitted tape to the ~ftp/pub directory.** Use the following commands:

```
cd ~ftp/pub [RETURN]
```

The following directories will be created:

```
docs/RemoteInstall
```

and

```
cgi-bin/RemoteInstall
```

**STEP 3: Configure aliases to these directories.** Configure aliases to these directories using whatever method is appropriate for your HTTP daemon.

For example, if you are using the NCSA HTTPD package, you would add the following lines to the `srm.conf` file:

```
Alias /RemoteInstall/ <RemoteInstall target>/docs/RemoteInstall/

ScriptAlias /cgi-bin/RemoteInstall
<RemoteInstall target> /cgi-bin/RemoteInstall
```

**STEP 4: Place segment files in the appropriate directory.** Place any segment files in the following directory:

```
~ftp/pub/RemoteInstall/ <RemoteInstall target>/docs/RemoteInstall
```

An executable called `IndexSegs` will be in that directory. This executable is used to update the segment index, which is used by `COERmtInstall` to display the segments in the repository.

Type the following command to update the segment index:

```
IndexSegs [repository home directory][RETURN]
```

<b>NOTE:</b> STEP 4 must be performed in order for <code>COERmtInstall</code> to operate properly.
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**STEP 5: (Netscape WWW server only) Set up Secure Socket Layer (SSL) encryption.** User name/password verification needs to be set up for the server in the `docs/RemoteInstall` directory.

<b>NOTE:</b> The DII COE 2.0 repository will create segment files immediately once a segment is
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1. The DII COE kernel must be loaded at the target site before the Remote Segment Installer segment can be used. The following setup issues must be resolved:

**C The account used when running the Remote Segment Installer must have permission to create and write to the network installation server directories (e.g., /h/NET\_SERVER, /home2/NET\_SERVER) and /h/data/global/sysAdm** In addition, the root user must be able to read and write to these directories for segments to be installed remotely.

**C The network installation server directory must be shared.** The following line must be in the `/etc/dfs/dfstab` file for Solaris:

```
share -F nfs [name of drive]
```

The directory name must be listed in the `/etc/exports` file for HP. If the directory is not shared, use the `Disk Manager` option to share the installation server directory. Refer to the *DII COE System Administrator's Guide (HP and Solaris)* for more information about using the `Disk Manager` option.

**C The working partition must be large enough to hold the necessary segment installation files.** Total disk space required is two to three times the size of the segment installation file.

2. The COERmtInstall tool provides several security measures (e.g., encryption, passwords, and anonymous FTP) to protect segment transmission and to prevent unauthorized access to the repository or a target site.

<p><b>NOTE:</b> No encryption is available for anonymous FTP. Encryption must be enabled at the source site by using a Netscape server with SSL support.</p>
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3. The DII COE 3.0 repository will create segment files immediately once a segment is downloaded (so extra disk space is required on the server), therefore, depending on the segments selected. It is recommended that extremely large segments not be made available for network download to save network resources.
4. The Remote Segment Installer segment cannot execute the Netscape browser because the

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